

Nucleotide Sequences pXP10 (SEQ ID No: 111)

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1   GACGAAAGGG CCTCGTGATA CGCCTATTTT TATAGGTTAA TGTCATGATA
   CTGCTTTCCC GGAGCACTAT GCGGATAAAA ATATCCAATT ACAGTACTAT
51  ATAATGGTTT CTTAGACGTC AGGTGGCACT TTTCGGGGAA ATGTGCGCGG
   TATTACCAAA GAATCTGCAG TCCACCGTGA AAAGCCCCTT TACACGCGCC
101 AACCCCTATT TGTATTATTT TCTAAATACA TTCAAATATG TATCCCGTCA
   TTGGGGATAA ACAAATAAAA AGATTATATG AAGTTTATAC ATAGCGGAGT
151 TGAGACAATA ACCCTGTATA ATGCTTCAAT AATATTGAAA AAGGAAGAGT
   ACTCTGTTAT TGGGACTATT TACGAAGTTA TTATAACTTT TCCTTCTCTA
201 ATGAGTATTC AACATTTCCG TGTCGCCCTT ATTCCTTTTT TTGGGGCATT
   TACTCATTAAG TTGTAAGGCG ACAGCGGGAA TAAGGGAAAA AACCGCGTAA
251 TTGCCCTTCT GTTTTTTGCT ACCCAGAAAC GCTGGTGAAA GTAAAAAGATG
   AACGGAAGGA CAAAACAGAG TGGGTCTTTG CGACCACTTT CATTTTCTAC
301 CTGAAGATCA GTTGGTGCTG CGAGTGGGTT ACATCGAACT GGATCTCAAC
   GACTTCTAGT CAACCCACGA GCTCACCCAA TGATAGCTTG CCTAGATGTG
351 AGCGGTGAAGA TCCTTGAGAG TTTTCGCCCC GAAGAACGTT TTCCAATGAT
   TCGCCATCTT AGGAACCTCT AAAAGCGGGG CTTCTTGCAA AAGGTTACTA
401 GAGCACTTTT AAAGTTCTGC TATGTGGCGC GGTATTATCC CGTATTGACG
   CTCGTGAAAA TTCAAGACG ATACACCGCG CCATAATAGG GCATAAAGTGC
451 CGGGGCAAGA GCAACTCGGT CGCCGCATAC ACTATTCTCA GAAATGACTTG
   GGCCTGTTCT CGTTGAGCCA GCGGCGTATG TGATAAGAGT TCTACTGAAC
501 GTTGAGTACT CACCACTCAC AGAAAGCAT CTTACGGATG GCATGACAGT
   CAACTCATGA GTGGTCAGTG TCTTTTCGTA GAATGCCATC CGTACTGTCA
551 AAGAGCAATTA TGCAGTGCTG CCATAACCAT GAGTGATAAC ACTCGCGCCA
   TTCTCTTAAT ACGTCACGAC GGTATTGGTA CTCACTATTG TGACGCGCGT
601 ACTTACTTCT GACAACGATC GGAGGACCGA AGGAGCTAAC CGCTTTTTTT
   TGAATGAAGA CTGTTGCTAG CTTCTGGCTT TCCTCGATTG GCGAAAAAAC
651 CACAACATGG GGGATCATGT AACTCGCCTT GATCGTTGGG AACCGGAGCT
   GTGTTGTACC CCTAGTACA TTGAGCGGAA CTAGCAACCC TTGGCCCTGA
701 GAATAGAGCC ATACCAACAG ACGAGCGTGA CACCACGATG CCGTGTAGCA
   CTTACTTCGG TATGGTTTGC TGCTCGCACT GTGGTGCTAC GGACATCGTT
751 TGGCAACAACT GTTGCAGAAA CTATTAACTG GCGAACTACT TACTCTAGCT
   ACCGTTGTTG CAACGCGTTT GATAATTGAC CGCTTGATGA ATGAGATCGA
801 TCCCGGCAAC AATTAATAGA CTGGATGGAG GCGGATAAAG TTGCAGGACC
   AGGGCCGTTG TTAATTATCT GACCTACCTC CGCCTATTTT AACGTCCTGG
851 ACTTCTCGCG TCGGCCCTTC CGGCTGGCTG GTTTATTGCT GATAAATCTG
   TGAAGACGCG AGCCGGGAAG GCGGACCGCA CAAATAACGA CTATTTAGAC
901 GAGCCGCGTG GCGTGGGTCT GCGGGTATCA TTGCAGCACT GGGGCCAGAT
   CTCGCGCACT CGCACCCAGA GCGGCATAGT AACGTCGTGA CCCCAGTCTA
951 GGTAAAGCCCT CCGGTATCGT AGTTATCTAC ACGACGGGGA GTACAGGCAAC
   CCATTCTGGGA GGGCATAGCA TCAATAGATG TGCTGCCCTT CAGTCCGCTG
1001 TATGGATGAA CGAAATAGAC AGATCGCTGA GATAGGTGCC TCACTGATTA
   ATACCTACTT GCTTTATCTG TCTAGCGACT CTATCCACGG AGTGACTTAAT
1051 AGCATTGGTA ACTGTGACAG CAAGTTTACT CATATATACT TATGATTAAT
   TCGTAACCAT TGACAGTCTG GTTCAAATGA GTATATATGA ATACTAATGA
1101 TTAATACTTC ATTTTAAATT TAAAAGGATC TAGGTGAAGA TCCTTTTTGA
   AATTTTGAAG TAAAATTAAT ATTTTCCTAG ATCCACTTCT AGGAAAAACT
1151 TAATCTCATG ACCAAAATCC CTTAACGTGA TTTTTCGTTT CACTGAGCGT
   ATTAGAGTAC TGGTTTTAGG GAATTGCACT CAAAAGCAAG GTGACTCGCA
1201 CAGACCCCGT AGAAAAGATC AAAGGATCTT CTTGAGATCC TTTTTCCTG
   GTCTGGGSCA TCTTTCTTAG TTTCTAGAA GAACCTTAGG AAAAAAGAC
1251 GCGGTAACTT GCTGCTTGCA AACAAAAAAA CCACCGCTAC CAGCGGTGGT
   GCGCATTTAG CGACGAACGT TTGTTTTTTT GGTGGCGATG GTCCGCCACA
1301 TTGTTTCCCG GATCAAGAGC TACCAACTCT TTTTCCGAAG GTAACCTGGT
   AACCAACAGGC CTAGTTCTCG ATGGTTGAGA AAAAGGCTTC CATTCGACCA
1351 TCAGCAGAGC GCAGATACCA AATACTGTCC TTCTAGTGTA GCGCTAGTTA

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	AGTCGCTCTCG	CGTCTATGGT	TTATGACAGG	AAGATCACAT	CGGCATCAAT
1401	GGCCACCACT	TCAAGAACTC	TGTAGCACCG	CCTACATACC	TGCGTCTGCT
	CCGGTGGTGA	AGTTCCTTGG	ACATCGTGGC	GGATGTATGG	AGCGAGACGA
1451	AATCCTGTGA	CCAGTGGCTG	CTGCCAGTGG	CGATAAGTCG	TGCTTTACCG
	TTAGGACAAAT	GGTCACCGAC	GACGGTCACC	GCTATTTCAG	ACAGAAATGGC
1501	GGTTGGACTC	AAGACGATAG	TTACCCGGATA	AGGCGACGGC	GTCCGGCTGA
	CCAACCTGAG	TTCTGCTATC	AATGGCCATAT	TCCGCGTCCG	CAGCCCCGACT
1551	ACGGGGGGTT	CGTGCATACA	GCCCAAGCTT	GAGCGAACGA	CCTACACCGA
	TGCCCCCCAA	GCACGTATGT	CGGGTCGAAC	CTCGCTTGCT	GGATTTGGCT
1601	ACTAGAGATC	CTACAGCGTG	AGCTATGAGA	AAGCGCCACG	CTTCCCCGAA
	TGACTCTATG	GATGTGCGAC	TCGATACTCT	TTCCGCGTGC	GAAAGGCTTC
1651	GGAGAAAGGC	GGACAGGTAT	CCGGTAAGCG	GCAGGGTCGG	AACAGGAGAG
	CCCTCTTCCG	CGTGTCCATA	GGCCATTCCG	CGTCCACAGC	TTGTCCCTCT
1701	CGCACGAGGG	AGCTTCCAGG	GGGAAACGCC	TGGTATCTTT	ATAGTCCGTG
	CGGTGCTCCC	TCGAAGGTCC	CCCTTTGCGG	ACCATAGAAA	TATCAGGACA
1751	CGGGTTTCCG	CACCTCTGAC	TTGAGCGTCG	ATTTTGTGTA	TGCTCTCGAG
	GCCCAAAGCG	GTGGAGACTG	AACTCGCAGC	TAAAAACACT	ACGAGCAGCT
1801	GGGGGCGGAG	CCTATGGAAA	AACGCCAGCA	ACGCGGCCCT	TTTACGGTTC
	CCCCCGCCTC	GGATACCTTT	TTGCGGTGCT	TGCGCCGGAA	AAATGCCAAG
1851	CTGGCCCTTT	GCTGGCCTTT	TGCTCACATG	TTCTTTCTGT	CGCTTATCCC
	GACCCGAAAA	GCACCGGAAA	ACGAGTGTAC	AAGAAAGGAC	GCAATAGGGG
1901	TGATTCTGTG	GATAACCGTA	TTACCGCCTT	TGAGTGAGCT	GATACCCGCT
	ACTAAGACAC	CTATTGGCAT	AATGGCGGAA	ACTCACTCGA	CTATGGCGAG
1951	GCCGCGAGCG	AACGACCGAG	CGCAGCGAGT	CAGTGAGCGA	GGAAGCGGAA
	CGGCGTCGGC	TTGCTGGCTC	CGCTCGCTCA	GTCACCTCGT	CCTTCGCGCT
2001	GAGCGGCCAA	TACGCAAAAC	GCCTCTCCCC	CGCGGTTGGC	CAGTTCATTA
	CTCGCGGGTT	ATGCGTTTGG	CGGAGAGGGG	CGCGCAACCG	GCTAAGTAAT
2051	ATGCGAGCTG	CACGACAGGT	TTCCCGACTG	GAAAGCGGGC	AGTGACGCGA
	TACGTGACAG	GTGCTGTCCA	AAGGGCTGAC	CTTTCGCCCC	TCATCTCGCT
2101	ACGCAATTA	TGTGAGTTAG	CTCACTCAT	AGGCACCCCA	GGCTTTACAC
	TGCGTTTAAT	ACACTCAACT	GAGTGAGTAA	TCCGTGGGGT	CGGAATGTGT
2151	TTTATGCTTC	CGGCTCGTAT	GTGTGTGGA	ATTGTGAGCG	GATAACAAT
	AAATACGAAG	GCCGAGCATA	CAACACACCT	TAACACTCGC	CTATTGTATA
2201	TCACACAGGA	AACAGCTATG	ACCATGATTA	CGCCAAGCTT	TGGGACCTTT
	AGTGTGCTCT	TTGTCGATAC	TGGTACTAAT	CGGTTTCGAA	ACTCCGGA
2251	TTTTTGAGGA	TTTTCAACGT	GAAAAAATTA	TTATTTCGAA	TTCTTTTAGT
	AAAAACCTCT	AAAAGTTGCA	CTTTTTTAA	AATAAGCGTT	AAGGAAATCA
2301	TGTTCCCTTC	TATGCGGCC	AGCCGGCCAT	GCAGTCCAGT	CAGTCGACG
	ACAAGGAAAG	ATACGCCGGG	TCGGCCGGTA	CCGGGTCGAG	GTCAGCTGTC
2351	GTGGAGCGCG	TTCAGGCGGA	GGTGGCTCTG	CGGGTGGCGG	AGTGCACACT
	CACCTCCGCC	AAGTCCGCC	CCACCGAGAC	CGCCACCGCC	TTACGTTGAG
2401	ATCAAAACGGC	GGCCGCGAGT	CGCGCGGTGC	CGTATCCGGA	TCCGCTGGAA
	TAGTTTTCGG	CGGCGCTCCA	CGCGCCACG	GCATAGGCTC	AGGCGACCTT
2451	CCGCGTCCGC	CATAGGCTGG	CGGCGGCTCT	GGTGGTGGTT	CTGGTGGCGG
	GGCGCACGGC	GTATCCGACC	CGCGCCGAGA	CAACACCAAA	GACCAACGCG
2501	CTCTGAGGGT	GGCGGCTCTG	AGGGTGGCGG	TTCTGAGGGT	GGCGGCTCTG
	GAGACTCCCA	CCGCCGAGAC	TCCCACCGCC	AAGACTCCCA	CCGCCGAGAC
2551	AGGGTGGCGG	TTCCGGTGGC	GGCTCCGTTG	CCGGTGATTT	TGCTATGAA
	TCCACCCGCC	AAGGCCACCG	CCGAGGCCAA	GGCCACTAAA	ACTAATACCT
2601	AAAAATGGCA	ACGCTAATAA	GGGGGCTATG	ACCGAAATG	CGATGAAAT
	TTTTACCGTT	TGCGATTATT	CCCCCGATAC	TGGCTTTTAC	GCTACTTTTT
2651	CGCGCTACAG	TCTGACGCTA	AAGGCAAACT	TGATTCTGTC	GCTACTGATT
	CGCGGATGTC	AGACTGCGAT	TTCCGTTTGA	ACTAAGACAG	CGATGACTAA
2701	ACGGTGTGCT	TATCGATGGT	TTCATTGGTG	ACGTTTCCGG	CTGTGCTAAT
	TGCCACGACG	ATAGCTACCA	AAGTAACCA	TGCAAAAGGCC	GGAACGATTA
2751	GGTAATGGTG	CTACTGGTGA	TTTTGCTGGC	TCTAATCCCC	AAATGGCTCA
	CCATTACCAC	GATGACCACT	AAAACGACCG	AGATTAAAGG	TTTACCGAGT

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2801	AGTCGGTGAC	GGTGATAATT	CACCTTTAAT	GAATAATTTT	CGTCAATATT
	TCAGCCACTG	CCACTATTAA	GTGGAAATTA	CTTATTAAAG	GCAGTTATAA
2851	TACCTTCTTT	GCCTCAGTCG	GTGGAATGTC	GCCCTTATGT	CTTTGGCGCT
	ATGGAAAGAAA	CGGAGTCAGC	CACCTTACAG	CGGGAATACA	GAAACCCGCGA
2901	GGTAAACCAT	ATGAATTTTC	TATTGATTGT	GACAAAATAA	ACTTATTTCCG
	CCATTTGGTA	TACTTAAAG	ATACTAACA	CTGTTTATT	TGAATAAGGC
2951	TGGTGTCTTT	GCCTTTCTTT	TATATGTTGC	CACCTTTATG	TATGTATTTT
	ACCCAGAGAAA	CGCAAAGAAA	ATATACAACG	GTGGAAATAC	ATACATAAAA
3001	CGACGTTTGC	TAACATACTG	CGTAATAAGG	AGTCTTAATA	AGAATTCACCT
	GCTGCAACCG	ATTGTATGAC	GCATTATTCC	TCAGAATTAT	TCTTAAGTGA
3051	GGCCGTCGTT	TTACAACGTC	GTGACTGGGA	AAACCCCTGGC	GTTACCCAAC
	CCGGCAGCAA	AATGTTGCAG	CACTGACCCCT	TTTGGGACCG	CAATGGGTTG
3101	TTAATCGCCT	TGCAGCACAT	CCCCCTTTCC	CCAGCTGGCG	TAATAGCGAA
	AATTAGCGGA	ACGTCGTGTA	GGGGGAAAGC	GGTCGACCGC	ATTATCGCTT
3151	GAGGCCCGCA	CCGATCGCCC	TTCCCAACAG	TTGCGCAGCC	TGAATGGCGA
	CTCCGGCGCT	GGCTAGCGGG	AAGGGTTGTC	AACGCGTCGG	ACTTACCGCT
3201	ATGGGCGCTG	ATGCGGTATT	TTCTCCTTAC	GCATCTGTGC	GGTATTTTAC
	TACCCGCGAC	TACGCCATAA	AAGAGGAATG	CGTAGACACG	CCATAAAGTG
3251	ACCGCATACG	TCAAAGCAAC	CATAGTACGC	GCCCTGTAGC	GGCGCATTAA
	TGGCGTATGC	AGTTTCGTTG	GTATCATGCG	CGGGACATCG	CCGCGTAATT
3301	GCCCGCGGGG	TGTGGTGGTT	ACGCGCAGCG	TGACCGCCTAC	ACTTGGCCAGC
	CGGGCCGCCC	ACACCACCAA	TGCGCGTCGC	ACTGGCGATG	TGAACGGTCG
3351	GCCCTAGCCC	CCGCTCCTTT	CGCTTCTTTC	CCTTCCCTTC	TCGGCACGTT
	CGGGATCGGG	GGCGAGGAAA	GCAGAAAGAG	GGAAGGAAAG	AGCGGTGCAA
3401	CGCCGCTTTT	CCCCGTCAAG	CTCTAAATCG	GGGGCTCCCT	TTAGGGTTCC
	GGCGCCGAAA	GGGGCAGTTC	GAGATTTAGC	CCCCGAGGGA	AATCCCAAGG
3451	GATTTAGTGC	TTTACGGCAC	CTCGACCCCA	AAAAACTTGA	TTTGGGTGAT
	CTAAATCACG	AAATGCCGTG	GAGCTGGGGT	TTTTTGAAC	AAACCCACTA
3501	GGTTACAGTA	GTGGGCCATC	GCCCTGATAG	ACGGTTTTTC	GTCCCTTTGAC
	CCAAGTGCA	CACCCGGTAG	CGGGACTATC	TGCCAAAAAG	CAGGAAACTG
3551	GTTCGAGTCC	ACGTTCTTTA	ATAGTGGACT	CTTGTTCCAA	ACTGGAACAA
	CAAGCTCAGG	TGCAAGAAAT	TATCACCTGA	GAACAAGGTT	TGACCTTTGT
3601	TACTCAACCC	TATCTCGGGC	TATTCTTTTG	ATTTATAAGG	GATTTTGC CG
	ATGAGTTGGG	ATAGAGCCCG	ATAAGAAAC	TAAATATTCC	CTAAACCGGC
3651	ATTTCCGSCCT	ATTGGTTAAA	AAATGAGCTG	ATTTAACAAA	ATTTTAACGC
	TAAAGCCGGA	TAACCAATTT	TTTACTCGAC	TAAATGTTT	TTAAATTGCG
3701	GAATTTTAA	AAAAATTTAA	CGTTTACAAT	TTTATGGTGC	AGTCTCAGTA
	CTTAAAAATT	TTTTATAATT	GCAAAATGTTA	AAATACCACG	TCAGAGTCAT
3751	CAATCTGCTC	TGATGCCGCA	TAGTTAAGCC	AGCCCCGACA	CCCCCAACA
	GTTAGACGAG	ACTACGGCGT	ATCAATTCGG	TCGGGGCTGT	GCGGGGTTGT
3801	CCCGCTGACG	CGCCCTGACG	GGCTTGCTG	CTCCCGGCAT	CCGCTTACAG
	GGGCGACTGC	GCGGGACTGC	CCGAACAGAG	GAGGGCCGTA	GGCGAATGTC
3851	ACAAGCTGTG	ACCGTCTCCG	GGAGCTGCAT	GTGTCAGAGG	TTTCCACCGT
	TGTTGACAC	TGGCAGAGGC	CCTGACGCTA	CACAGTCTCC	AAAAGTGGCA
3901	CATCACCAGAA	ACGCGCGA			
	GTAGTGGCTT	TGCGCGCT			

Fig. 7b

Nucleotide Sequences pXP14 (SEQ ID No: 112)

1	GACGAAAGGG	CCTCGTGATA	CGCCTATTTT	TATAGGTTAA	TGTCATGATA
	CTGCTTTCC	GGAGCACTAT	CGCGATAAAA	ATATCCAAAT	ACAGTACTAT
51	ATAATGGTTT	CTTAGACGTC	AGGTGGCACT	TTTCGGGGAA	ATGTGCGCGG
	TATTACCAAA	GAATCTGCAG	TCCACCGTGA	AAAGCCCTTT	TACACGCGCC
101	AAACCCCTATT	TGTTTTATTT	TCTAAATACA	TTCAAATATG	TATCCGCTCA
	TTGGGGATAA	ACAAATAAAA	AGATTTATGT	AAGTTTATAC	ATAGGCGAGT
151	TGAGACATAA	ACCCTGATAA	ATGCTTCAAT	AATATTGAAA	AAGGAAGAGT
	ACTCTGTATT	TGGGACTATT	TACGAAGTTA	TTATAACTTT	TTCTTCTCA
201	ATGAGTATT	AACATTTCCG	TGTCGCCCTT	ATTCCCTTTT	TTGCGGCATT
	TACTCATAAG	TTGTAAAGGC	ACAGCGGGAA	TAAGGGAAAA	AACGCCGTAA
251	TTGCCCTTCT	GTTTTTGCTC	ACCCAGAAAC	GCTGGTGAAA	GTAAAAGATG
	AACGGAAGGA	CAAAAACGAG	TGGGTCTTTG	CGACCACTTT	CATTTTCTAC
301	CTGAAGATCA	GTGGGTGCT	CGAGTGGGTT	ACATCGAACT	GGATCTCAAC
	GACTTCTAGT	CAACCCACGA	GCTCACCCAA	TGTAGCTTGA	CCTAGAGTTG
351	AGCGGTAAGA	TCCTTGAGAG	TTTTCGCCCC	GAAGAACGTT	TTCCAATGAT
	TCGCCATTCT	AGGAACCTCT	AAAAGCGGGG	CTTCTTGCAA	AAGGTTACTA
401	GAGCACTTTT	AAAGTTCTGC	TATGTGGCGC	GGTATTATCC	CGTATTGACG
	CTCGTGAAAA	TTTCAAGACG	ATACACCGCG	CCATAATAGG	GCATAACTGC
451	CCGGGCAAGA	GCAACTCGGT	CGCCGCATAC	ACTATTCTCA	GAATGACTTG
	GGCCCCGTCT	CGTTGAGCCA	GCGGCGTATG	TGATAAGAGT	CTTACTGAAC
501	GTTGAGTACT	CACCACTCAC	AGAAAAGCAT	CTTACGGATG	GCATGACAGT
	CAACTCATGA	GTGGTCAGTG	TCTTTTCGTA	GAATGCCTAC	CGTACTGTCA
551	AAGAGAATTA	TGCAGTGTCT	CCATAACCAT	GAGTGATAAC	ACTGCGGCCA
	TTCTCTTAAT	ACGTACAGAC	GGTATTGGTA	CTCACTATTG	TACAGCCGGT
601	ACTTACTTCT	GACAACGATC	GGAGGACCGA	AGGAGCTAAC	CGCTTTTTTG
	TGAATGAAGA	CTGTGTCTAG	CCTCTGGCT	TCTCGATTG	GCGAAAAAAC
651	CACAACATGG	GGGATCATGT	AACTCGCCTT	GATCGTTGGG	AACCGGAGCT
	GTGTTGTACC	CCTAGTACA	TTGAGCGGAA	CTAGCAACCC	TTGGCCTCGA
701	GAATGAAGCC	ATACCAAAAC	ACGAGCGTGA	CACCACGATG	CCTGTAGCAA
	CTTACTTCGG	TATGGTTTGC	TGCTCGCACT	GTGGTGCTAC	GGACATCGTT
751	TGGCAACAAC	GTTGCGCAAA	CTATTAACCT	GCGAACTACT	TACTCTAGCT
	ACCGTTGTTG	CAACGCGTTT	GATAATTGAC	CGCTTGATGA	ATGAGATCGA
801	TCCCGGCAAC	AATTAATAGA	CTGGATGGAG	GCGGATAAAG	TTGCAAGGAC
	AGGGCCGTTG	TTAATTATCT	GACCTACCTC	CGCCTATTTT	AACGTCCTGG
851	ACTTCTGCGC	TCGGCCCTTC	CGGCTGGCTG	GTTTATTGCT	GATAAATCTG
	TGAAGACGCG	AGCCGGGAAG	GCCGACCGAC	CAAATAACGA	CTATTAGAC
901	GAGCCGGTGA	CGCTGGGTCT	CGCGGTATCA	TTGCAAGCAT	GGGGCCAGAT
	CTCGGCCACT	CGCACCCAGA	GCGCCATAGT	AACGTCGTGA	CGGCGCTCTA
951	GGTAAGCCCT	CCCGTATCGT	AGTTATCTAC	ACGACGGGGA	GTCAGGCAAC
	CCATTTCGGGA	GGGCATAGCA	TCAATAGATG	TGCTGCCCTT	CAGTCCGTTG
1001	TATGGATGAA	CGAAATAGAC	AGATCGCTGA	GATAGGTGCC	TCACTGATTA
	ATACCTACTT	GCTTTATCTG	TCTAGCGACT	CTATCCACGG	AGTGAATAAT
1051	AGCATTGGTA	ACTGTCAGAC	CAAGTTTACT	CATATATACT	TTAGATTGAT
	TCGTAACCAT	TGACAGTCTG	GTTCAAATGA	GTATATATGA	AATCTAACTA
1101	TTAAAACCTC	ATTTTAAATT	TAAAAGGATC	TAGGTGAAGA	TCCTTTTTGA
	AATTTTGAAG	TAAAATTAA	ATTTTCTTAG	ATCCACTTCT	AGGAAAAACT
1151	TAATCTCATG	ACCAAATCC	CTTAACGTGA	GTTTTCGTTC	CACTGAGCGT
	ATTAGAGTAC	TGGTTTTAGG	GAATTGCAC	CAAAAGCAAG	GTGACTCGCA
1201	CAGACCCCGT	AGAAAAGATC	AAAGGATCTT	CTTGAGATCT	TTTTTTCTG
	GTCTGGGGCA	TCTTTTCTAG	TTTCTAGAA	GAACTCTAGG	AAAAAAGAC

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1251	CGCGTAATCT	GCTGCTTGCA	AACAAAAAAA	CCACCGCTAC	CAGCGGTGGT
	GCGCATTAGA	CGACGAACGT	TTGTTTTTTT	GGTGGCGATG	GTCGCCACCA
1301	TTGTTTGCCG	GATCAAGAGC	TACCAACTCT	TTTTCCGAAG	GTAACGTGCT
	AACAAACGGC	CTAGTTCTCG	ATGGTTGAGA	AAAAGGCTTC	CATTGACCGA
1351	TCAGCAGAGC	GCAGATACCA	AATACTGTCC	TTCTAGTGTG	CCCGTAGTTA
	AGTCGTCTCG	CGTCTATGGT	TTATGACAGG	AAGATCACAT	CGGCATCAAT
1401	GGCCACCACT	TCAAGAACTC	TGTAGCACCG	CCTACATACC	TCGCTCTGCT
	CCGGTGGTGA	AGTTCTTGAG	ACATCGTGGC	GGATGTATGG	AGCAGACGGA
1451	AATCCTGTGA	CCAGTGGCTG	CTGCCAGTGG	CGATAAGTGC	TGCTTACCAG
	TTAGGACAAT	GGTCACCGAC	GACGGTCACC	GCTATTACAG	ACAGAATGGC
1501	GGTTGGACTC	AAGACGATAG	TTACCGGATA	AGGCGCAGCG	GTCGGGCTGA
	CCAACCTGAG	TTCTGCTATC	AATGGCCTAT	TCCGCGTCGC	CAGCCCGACT
1551	ACGGGGGGTT	CGTGCAATCA	GCCAGGCTTG	GAGCGAACGA	CCTACACCGA
	TGCCCCCCAA	GCACGTATGT	CGGGTCGAAC	CTCGCTTGCT	GGATGTGCTC
1601	ACTGAGATAC	CTACAGCGTG	AGCTATGAGA	AAGCGCCAGC	CTTCCCGAAG
	TGACTCTATG	GATGTCGCAC	TCGATACTCT	TTCCGCGGTG	GAAGGGCTTC
1651	GGAGAAAGGC	GGACAGGTAT	CCGGTAAGCG	GCAGGGTCGG	AACAGGAGAG
	CCTCTTTCCG	CCTGTCCATA	GGCCATTTCG	CGTCCAGCGC	TTGTCTCTCT
1701	CGCACGAGGG	AGCTTCCAGG	GGGAAACGCC	TGGTATCTTT	ATAGTCTGTG
	CGGTGCTCCC	TCGAAGGTCC	CCCTTTCGGG	ACCATAGAAA	TATCAGGACA
1751	CGGGTTTCGC	CACCTCTGAC	TTGAGCGTCG	ATTTTGTGTA	TGCTCGTCAG
	GCCCAAAGCG	GTTGGAGACTG	AACTCGCAGC	TAAAAACACT	ACGACGATGC
1801	GGGGGCGGAG	CCATATGAAA	AACGCCAGCA	ACGCGGCCTT	TTACCGGTTC
	CCCCCGCCTC	GGATACCTTT	TTGCGGTCTG	TGCGCCGGAAG	AATAGTCAAG
1851	CTGGCCTTTT	GCTGGCCTTT	TGCTCACATG	TTCTTTCCTG	CGTTATCCCC
	GACCGGAAAA	GACCCGAAAA	ACGAGTGATC	AAGAAAGGAC	GCAATAGGGG
1901	TGATTTCTGT	GATAACCGTA	TTACCGCCTT	TGAGTGAGCT	GATACCGCTC
	ACTAAGACAC	CTATTGGCAT	AATGGCGGAA	ACTACTCTGA	CTATGGCGAG
1951	GCCGACGCCG	AACGACCGAG	CGCAGCGAGT	CAGTGAGCGA	GGAAGCGGAA
	CGGCGTCGGC	TTGCTGGCTC	GCGTCGCTCA	GTCACTCGCT	CCTTCGCTCT
2001	GAGCGCCCAA	TACGCAAAAC	GCCTCTCCCC	GCGCGTTGGC	CGATTCAATTA
	CTCGCGGGTT	ATGCGTTTGG	CGGAGAGGGG	CGCGCAACCG	GCTAAGTAAT
2051	ATGCAGCTGG	CACGACAGGT	TTCCCGACTG	GAAAGCGGGC	AGTGAGCGCA
	TACGTGCGACC	GTGCTGTCCA	AAGGGCTGAC	CTTTCGCCCC	TCACCTCGCGT
2101	ACGCAATTA	TGTGAGTTAG	CTCACTCATT	AGGCACCCCA	CGCTTTACAC
	TGCGTTAATT	ACACTCAATC	GAGTGAGTAA	TCCGTGGGGT	GCGAAATGTG
2151	TTTATGCTTC	CGGCTCGTAT	GTTGTGTGGA	ATTGTGAGCG	GATACCAATT
	AAATACGAAG	GCCGAGCATA	CAACACACCT	TAACACTCGC	CTATTGTATA
2201	TCACACAGGA	AACAGCTATG	ACCATGATTA	CGCCAAGCTT	GCATGCAAA
	AGTGTGTCTT	TTGTGATATC	TGGTACTAAT	GCGGTTCCGA	CGTACGTTTA
2251	TCATTATTCAA	GGAGACAGTC	ATAATGAAAT	ACCTATTGCC	TACGGCAGCC
	AGATAAAGTT	CCTCTGTCAG	TATTACTTTA	TGGATAACGG	ATGCCGTCGG
2301	GCTGGATTGT	TATTACTCGC	GGCCACGCCG	GCCATTGGCC	AGGTGACGCT
	CGACCTAACA	ATAATGAGCG	CCGGTTCGGC	CGGTACCCGG	TCCACGTGCA
2351	GCAGGTTCGG	CTCGAGATCA	AACGGGCGGC	CGCAGGTGCG	CCGGTCCCGT
	CGTCCAGCCG	GAGCTCTAGT	TTGCCCCGCC	GCGTCCACGC	GGCCACGGCA
2401	ATCCAGATCC	GCTGGAACCG	CGTGGGGCCG	CAAGCGCTTG	GAGCCACCCG
	TAGGTCTAGG	GCACCTTGGC	GCACCCCGGC	GTTCCGGAAC	CTCGGTGGGC
2451	CAGTTCGAAA	AATAATAAGG	ATCCGAAATC	ACTGGCCGTC	GTTTACAAAC
	GTCAGAGCTT	TTATTATTCC	TAGGCTTAAG	TGACCCGCGA	CAAAATGTTG
2501	GTCGTGACTG	GGAAAAACCT	GGCGTTACCC	AACCTTAATCG	CCTTGCAGCA

-Replacement Sheet-
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	CAGCACTGAC	CCTTTTGGGA	CCGCAATGGG	TTGAATTAGC	GGAACGTCGT
2551	CATCCCCCTT	TCGCCAGCTG	GCGTAATAGC	GAAGAGGCC	GCACCGATCG
	GTAGGGGGAA	AGCGGTCGAC	CGCATTATCG	CTTCTCCGGG	CGTGGCTAGC
2601	CCCTTCCCAA	CAGTTGCGCA	GCCTGAATGG	CGAATGGCGC	CTGATGCGGT
	GGGAAGGGTT	GTCAACGCGT	CGGACTTACC	GCTTACCGCG	GACTACGCCA
2651	ATTTTCTCCT	TACGCATCTG	TGCGGTATTT	CACACCGCAT	ACGTCAAAAGC
	TAAAAGAGGA	ATGCGTAGAC	ACGCCATAAA	GTGTGGCGTA	TGCAGTTTCG
2701	AACCATAGTA	CGCGCCCTGT	AGCGGCGCAT	TAAGCCCGGC	GGGTGTGGTG
	TTGGTATCAT	CGCGGGGACA	TCGCGCGTA	ATTGCGGGCC	CCCACACCAC
2751	GTTACGCGCA	GCGTGACCGC	TACACTTGCC	AGCGCCCTAG	CCCCCGCTCC
	CAATGCGCGT	CGCACTGGCG	ATGTGAACGG	TCGCGGGATC	GGGGGCGAGG
2801	TTTCGCTTTC	TTCCCTTCCT	TTCTCGCCAC	GTTCGCGCGC	TTTCCCGGTC
	AAAGCGAAAG	AAGGGAAGGA	AAGAGCGGTG	CAAGCGGGCC	AAAGGGGCAG
2851	AAGCTCTAAA	TCGGGGGCTC	CCTTTAGGGT	TCCGATTTAG	TGCTTTACGG
	TTCGAGATTT	AGCCCCCGAG	GGAAATCCCA	AGGCTAAATC	ACGAAATGCC
2901	CACCTCGACC	CCAAAAAACT	TGATTTGGGT	GATGGTTCAC	GTAGTGGGCC
	GTGGAGCTGG	GGTTTTTTGA	ACTAAACCCA	CTACCAAGTG	CATCACCCGG
2951	ATCGCCCTGA	TAGACGGTTT	TTCTGCTCTT	GACGTTTCGAG	TCCACGTTCT
	TAGCGGGACT	ATCTGCCAAA	AAGCAGGAAA	CTGCAAGCTC	AGGTGCAAGA
3001	TTAATAGTGG	ACTCTTGTTT	CAAACTGGAA	CAATACTCAA	CCCTATCTCG
	AATTATCACC	TGAGAACAAG	GTTTGACCTT	GTTATGAGTT	GGGATAGAGC
3051	GGCTATTCTT	TTGATTTATA	AGGGATTTTG	CCGATTTTCGG	CCTATTGGTT
	CCGATAAGAA	AACTAAATAT	TCCCTAAAC	GGCTAAAGCC	GGATAACCAA
3101	AAAAAATGAG	CTGATTTAAC	AAAAATTAA	CGCGAATTTT	AACAAAATAT
	TTTTTTACTC	GACTAAATTG	TTTTTAAATT	GCGCTTAAAA	TTGTTTTATA
3151	TAACGTTTAC	AATTTTATGG	TGCAGTCTCA	GTACAATCTG	CTCTGATGCC
	ATTGCAAATG	TTAAATAACC	ACGTCAGAGT	CATGTTAGAC	GAGACTACGG
3201	GCATAGTTAA	GCCAGCCCCG	ACACCCGCCA	ACACCCGCTG	ACGCGCCCTG
	CGTATCAATT	CGGTCGGGGC	TGTGGGCGGT	TGTGGGCGAC	TGCGCGGGAC
3251	ACGGGCTTGT	CTGCTCCCGG	CATCCGCTTA	CAGACAAGCT	GTGACCGTCT
	TGCCCCAACA	GACGAGGGCC	GTAGCGGAAT	GTCTGTTCGA	CACTGGCAGA
3301	CCGGGAGCTG	CATGTGTCAG	AGGTTTTTAC	CGTCATCACC	GAAACGCGCG
	GGCCCTCGAC	GTACACAGTC	TCCAAAAGTG	GCAGTAGTGG	CTTTGCGCGC
3351	A				
	T				

Fig. 8b

cDNA primers

VLK-c	CTGGATGGTGGGAAGATGGA (SEQ ID No:113)
VLL-c	TCAGAGGAAGGAACAGGGT (SEQ ID No:114)
IgG1-c	CTTACAACCACAATCCCTGGGCACAATTTT (SEQ ID No:115)
IgG2a-c	CTTTGTGGGCCCTCTGGGCTCAAT (SEQ ID No:116)
IgG2b	TGAAATGGGCCCCTGGGCTCAAG (SEQ ID No:117)
IgG3-c	GGGCTTGGGATTCTAGGCTCGAT (SEQ ID No:118)

VH forward primers without restriction sites

M-VH1	GAGGTGCAGCTTCAGGAGTCAGG (SEQ ID No:119)
M-VH2	CAGGTGCAGCTGAAGGAGTCAGG (SEQ ID No:120)
M-VH3	GAGGTCCAGCTGCAACAGTCTGG (SEQ ID No:121)
M-VH4	GAGGTTCAGCTGCAGCAGTCTGG (SEQ ID No:122)
M-VH5	CAGGTCCAACCTGCAGCAGCCTGG (SEQ ID No:123)
M-VH6	CAGGTTCAGCTGCAGCAGTCTGG (SEQ ID No:124)
M-VH7	GAGGTGAAGCTGGTGGAGTCTGG (SEQ ID No:125)
M-VH8	GAGGTGAAGCTGGTGGAACTCTGG (SEQ ID No:126)
M-VH9	GAGGTTCAGCTTCAGCAGTCTGG (SEQ ID No:127)

VH backward primers without restriction sites

M-JH1	TGAGGAGACGGTGACCGTGGTCCC (SEQ ID No:128)
M-JH2	TGAGGAGACTGTGAGAGTGGTGCC (SEQ ID No:129)
M-JH3	TGCAGAGACAGTGACCAGAGTCCC (SEQ ID No:130)
M-JH4	TGAGGAGACGGTGACTGAGGTTCC (SEQ ID No:131)

VL forward primer without restriction sites

M-VK1	GACATTGTGATGACACAGTCTCC (SEQ ID No:132)
M-VK2	GATGTGTGATGACCCAACTCC (SEQ ID No:133)
M-VK3	GATATCCAGATGACACAGACTCC (SEQ ID No:134)
M-VK4	CAAAATTGTTCTCACCCAGTCTCC (SEQ ID No:135)
M-VL1	CAGGCTGTTGTGACTCAGGAATC (SEQ ID No:136)

VL backward primers without restriction sites

M-JK1	TTTGATTTCCAGCTTGGTGCTCC (SEQ ID No:137)
M-JK2	TTTTATTTCCAGCTTGGTCCCCC (SEQ ID No:138)
M-JK3	TTTCAGCTCCAGCTTGGTCCCAGC (SEQ ID No:139)
M-JL1	ACCTAGGACAGTGACCTTGGTTC (SEQ ID No:140)

VH forward primers with restriction sites

MVH1 Sfil	GTCTCGCAACTGCGGCCAGCCGGCCATGGCCAGGTGCAGCTTCAGGAGTCAGG (SEQ ID No:141)
MVH2 Sfil	GTCTCGCAACTGCGGCCAGCCGGCCATGGCCAGGTGCAGCTGAAGGAGTCAGG (SEQ ID No:142)
MVH3 Sfil	GTCTCGCAACTGCGGCCAGCCGGCCATGGCCAGGTCCAGCTGCAACAGCTCTGG (SEQ ID No:143)
MVH4 Sfil	GTCTCGCAACTGCGGCCAGCCGGCCATGGCCAGGTTCAAGTGCAGCAGCTCTGG (SEQ ID No:144)
MVH5 Sfil	GTCTCGCAACTGCGGCCAGCCGGCCATGGCCAGGTCCAACTGCAGCAGCTCTGG (SEQ ID No:145)
MVH6 Sfil	GTCTCGCAACTGCGGCCAGCCGGCCATGGCCAGGTTCAAGTGCAGCAGCTCTGG (SEQ ID No:146)
MVH7 Sfil	GTCTCGCAACTGCGGCCAGCCGGCCATGGCCAGGTGAAGCTGGTGGAGCTCTGG (SEQ ID No:147)
MVH8 Sfil	GTCTCGCAACTGCGGCCAGCCGGCCATGGCCAGGTGAAGCTGGTGGAAATCTGG (SEQ ID No:148)
MVH9 Sfil	GTCTCGCAACTGCGGCCAGCCGGCCATGGCCAGGTTCAAGTTCAGCAGCTCTGG (SEQ ID No:149)

VH backward primers with restriction sites

MJH1 Sall	GAGTCATTCTCGTGTGACACAGGTGACCGTGGTCCC (SEQ ID No:150)
MJH2 Sall	GAGTCATTCTCGTGTGACACAGTGTGAGAGTGGTGCC (SEQ ID No:151)
MJH3 Sall	GAGTCATTCTCGTGTGACACAGTGACCAAGAGTCCC (SEQ ID No:152)
MJH4 Sall	GAGTCATTCTCGTGTGACACAGTGACTGAGGTTC (SEQ ID No:153)

VL forward primers with restriction sites

MVK1 ApaL1	TGAGCACACAGTGCACCTCGACATTGTGATGACACAGTCTCC (SEQ ID No:154)
MVK2 ApaL1	TGAGCACACAGTGCACCTCGATGTTGTGATGACCCAAACTCC (SEQ ID No:155)
MVK3 ApaL1	TGAGCACACAGTGCACCTCGATATCCAGATGACACAGACTCC (SEQ ID No:156)
MVK4 ApaL1	TGAGCACACAGTGCACCTCCAAATTGTTCTCACCCAGTCTCC (SEQ ID No:157)
MVL1 ApaL1	TGAGCACACAGTGCACCTCCAGGCTGTTGTGACTCAGGAATC (SEQ ID No:158)

VL backward primers with restriction sites

M-JK1 NotI	GAGTCATTCTCGACTTGCAGCCGCTTTGATTTCAGCTTGGTGCCTCC (SEQ ID No:159)
M-JK2 NotI	GAGTCATTCTCGACTTGCAGCCGCTTTTATTTCAGCTTGGTCCCCC (SEQ ID No:160)
M-JK3 NotI	GAGTCATTCTCGACTTGCAGCCGCTTTTCAGTCCAGCTTGGTCCAGC (SEQ ID No:161)
M-JL1 NotI	GAGTCATTCTCGACTTGCAGCCGCACTAGGACAGTGACCTTGGTTC (SEQ ID No:162)